p1029: Box multiplication of linear binomials (v13)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3
2x	$12x^2$	6x
4	24x	12

$12x^2 + 6x + 24x + 12$

Combine like terms.

$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(9x + 4)$ and $(6x + 3)$.

*	9x	4
6x	$54x^2$	24x
3	27x	12

ANSWER: $54x^2 + 51x + 12$

Question 2

Use the box method to multiply $(6x - 7)$ and $(8x + 5)$.

*	6x	− 7
8x	48x²	− 56x
5	30x	− 35

ANSWER: $48x^2 - 26x - 35$

Question 3

Use the box method to multiply $(4x - 2)$ and $(3x + 6)$.

*	4x	− 2
3x	12x²	− 6x
6	24x	− 12

ANSWER: $12x^2 + 18x - 12$